

# Work Order ID 69921

Tuesday, May 24, 2011 2:19:28 PM



Page 1

Item ID: D2933-2

Accept



Setup Start



Revision ID:

Item Name: Saddle RH In, 206

Stop



Start Date: 5/24/2011 Start Qty: 6.00



Cust Item ID:

Required Date: 5/31/2011 Req'd Qty: 6.00

Customer:

Reference:

Approvals:

Process Plan:

*R*

Date: 11-05-24

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr

Revision Nbr

D2933

Rev C

100

0.00



HAAS CNC VERTICAL MACHINING #1

HAAS 1

Memo

0.00

HAAS CNC vertical machine #1

Program part number and batch number. ☐ 1-Inspect part number and batch number are programmed correctly. ☐ 2-Machine Step No 1 of Folio and visually inspect as per dwg D2933 & attached Dimension Sheet ☐ 3-Machine Step No 2 of Folio and visually inspect as per

*29 11-7-5 6 0*

110

0.00



CONVENTIONAL MILLING MACHINE

Mill Conv

Memo

0.00

Conventional Milling Machine

Machine Keyway and inspect per attached dimension sheet

*29 11-7-5 6 0*

120

0.00



QC1- Inspect dimensions to dimension sheet

QC

Memo

0.00

Quality Control

*29 11-7-5 6 0*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			






**NOTE:** Date & initial all entries



# Work Order ID 69921

Tuesday, May 24, 2011 2:19:28 PM





Page 2


Item ID: D2933-2 Accept  Setup Start   
Revision ID: Stop   
Item Name: Saddle RH In, 206  
Start Date: 5/24/2011 Start Qty: 6.00  Cust Item ID:  
Required Date: 5/31/2011 Req'd Qty: 6.00  Customer:  
Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start   
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop 

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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130  QC Quality Control	QC8- Inspect parts - second check  Memo	0.00  0.00	B.A	11/07/06		6	0		
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140  HandFinish Hand Finishing	Chemical Conversion Coat per QSI005 4.1  Memo	0.00  0.00				0	0	11-7-6	
---	---	------------------	--	--	--	---	---	--------	--

150  Powdercoat Powder Coating	White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum  Memo	0.00  0.00							
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START TIME: 3:15 ☐ OVEN TEMPERATURE:  
FINISH TIME: 3:45  
M 117745 320 °F

6x 0 m-f 11/07/07

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

**Work Order ID 69921**

Tuesday, May 24, 2011 2:19:28 PM



Page 3

Item ID: D2933-2

Accept



Setup Start



Revision ID:

Stop



Item Name: Saddle RH In, 206

Start Date: 5/24/2011 Start Qty: 6.00



Cust Item ID:

Required Date: 5/31/2011 Req'd Qty: 6.00



Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

160



QC

Quality Control

QC3- Inspect Part Finish

0.00

Memo

0.00

6 0 BR 11-7-8.

170



Packaging

Packaging

Identify as per dwg & Stock Location 438

0.00

Memo

0.00

11/7/2011 60

180



QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

11/7/11 20

MF 11-07-08

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

Tuesday, May 24, 2011 2:19:35 PM

Page 1

Work Order ID: 69921

Parent Item: D2933-2

Parent Item Name: Saddle RH In, 206



Start Date: 5/24/2011

Required Date: 5/31/2011

Start Qty: 6.00

Required Qty: 6.00

Comments: IPP: B□00.06.26□New DWG rev (mpp 2069)□EC□  
IPP Rev:C As per Rev C 07-03-19 JLM □

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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D6101-001

Manufactured

No

100

Each

51.0000

1

6



20 11-7-5

Saddle Billet

Location

Loc Qty

Loc Code

MAT040

51

64777

20

66965

10

68170

21

69700

3

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



<b>DART AEROSPACE LTD</b>		<b>Work Order:</b>	
<b>Description:</b> 206 Saddle, Inboard, Right side		<b>Part Number:</b>	<b>D2933-2</b>
<b>Inspection Dwg:</b> D2933 Rev. C		<b>Page 1 of 1</b>	

Inspect dimensions highlighted on inspection sheet drawing D2933 Rev. C and record below:

Dim	Min	Max	Go/No Go Gauge	Recorded Actual Dimensions				By	Date
				1	2	3	4		
A	0.100	0.140		.128	.128	.128	.128		
B	0.100	0.140		.128	.128	.128	.128		
C	0.100	0.140		.120	.120	.120	.118		
D	0.210	0.230		.222	.222	.222	.222		
E	1.245	1.255		1.250	1.250	1.250	1.250		
F	1.245	1.255		1.250	1.250	1.250	1.250		
G	2.495	2.505		2.500	2.500	2.500	2.500		
H	0.510	0.515		.511	.511	.511	.511		
I	1.572	1.582		1.577	1.577	1.577	1.577		
J	2.495	2.505		2.500	2.500	2.500	2.500		
K	0.257	0.262		.257	.257	.257	.257		
L	0.312	0.317		.313	.313	.313	.313		
M	0.235	0.240		.238	.238	.238	.238		
N	0.100	0.140		.120	.120	.120	.120		
O	0.540	0.560		.549	.549	.549	.549		
P	0.490	0.510		.497	.497	.497	.497		
Q	3.715	3.725		3.720	3.720	3.720	3.720		
R	2.470	2.510		2.494	2.494	2.494	2.494		
S	0.240	0.270		.251	.251	.251	.252		
T	0.100	0.180		.130	.130	.130	.130		
U	1.625	1.635		1.630	1.630	1.630	1.630		
V	1.362	1.372		1.367	1.367	1.367	1.367		
W	0.316	0.321		.316	.316	.316	.316		
X	1.125	1.145		1.136	1.136	1.136	1.136		
Y	1.565	1.585	DT8695 A/B	1.575	1.575	1.575	1.575		
Z	0.178	0.198		.188	.188	.188	.188		
AA									
AB									
AC									
AD									
AE									
AF									
AG									
AH									
Accept/Reject									

29.02

11

11

Measured by:	29
Date:	11.7.5

Audited by:	H.A
Date:	11/07/06

Rev	Date	Change	Revised by	Approved
A		New Issue	RF	
B	02.12.12	Re-format; Added Dim. X-Y, DT8683, DT8686, DT8690 & DT8695 A/B	KJ/RF	
C	07.03.21	Revised per drawing revision C	KJ/JLM	

<b>DART AEROSPACE LTD</b>	<b>Work Order:</b> 69921
<b>Description:</b> 206 Saddle, Inboard, Right side	<b>Part Number:</b> D2933-2
<b>Inspection Dwg:</b> D2933 Rev. C	<b>Page 1 of 1</b>

Inspect dimensions highlighted on inspection sheet drawing D2933 Rev. C and record below:

				Recorded Actual Dimensions					
Dim	Min	Max	Go/No Go Gauge	1	2	3	4	By	Date
A	0.100	0.140		.128	.128				
B	0.100	0.140		.125	.125				
C	0.100	0.140		.120	.120				
D	0.210	0.230		.222	.222				
E	1.245	1.255		1.250	1.250				
F	1.245	1.255		1.250	1.250				
G	2.495	2.505		2.500	2.500				
H	0.510	0.515		.511	.511				
I	1.572	1.582		1.577	1.577				
J	2.495	2.505		2.500	2.500				
K	0.257	0.262		.257	.257				
L	0.312	0.317		.313	.313				
M	0.235	0.240		.238	.238				
N	0.100	0.140		.120	.120				
O	0.540	0.560		.547	.547				
P	0.490	0.510		.497	.497				
Q	3.715	3.725		3.720	3.720				
R	2.470	2.510		2.494	2.494				
S	0.240	0.270		.251	.251				
T	0.100	0.180		.130	.130				
U	1.625	1.635		1.630	1.630				
V	1.362	1.372		1.367	1.367				
W	0.316	0.321		.316	.316				
X	1.125	1.145		1.135	1.135				
Y	1.565	1.585	DT8695 A/B	1.575	1.575				
Z	0.178	0.198		.188	.188				
AA									
AB									
AC									
AD									
AE									
AF									
AG									
AH									
Accept/Reject									

Measured by: <i>DS</i>
Date: 11.7.5

Audited by: <i>H.A</i>
Date: 11/07/06

Rev	Date	Change	Revised by	Approved
A		New Issue	RF	
B	02.12.12	Re-format; Added Dim. X-Y, DT8683, DT8686, DT8690 & DT8695 A/B	KJ/RF	
C	07.03.21	Revised per drawing revision C	KJ/JLM	<i>[Signature]</i>

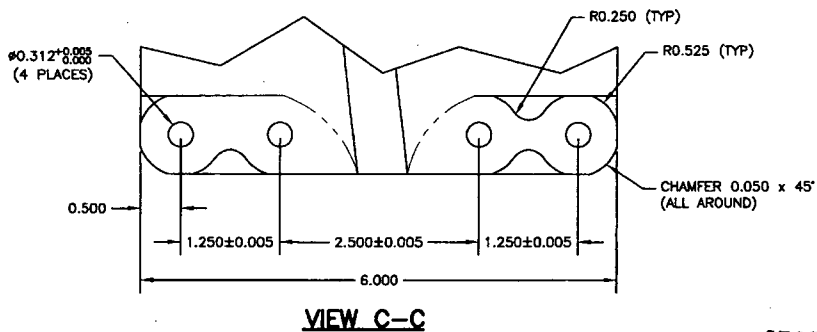
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

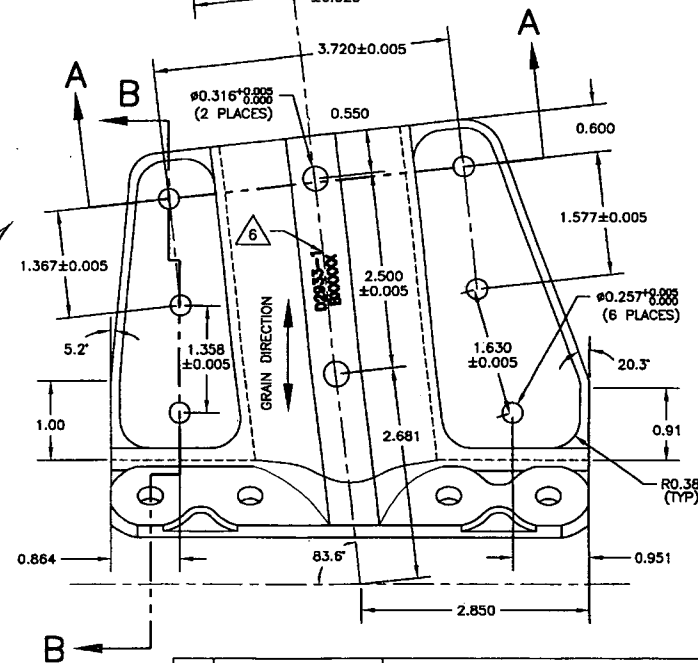
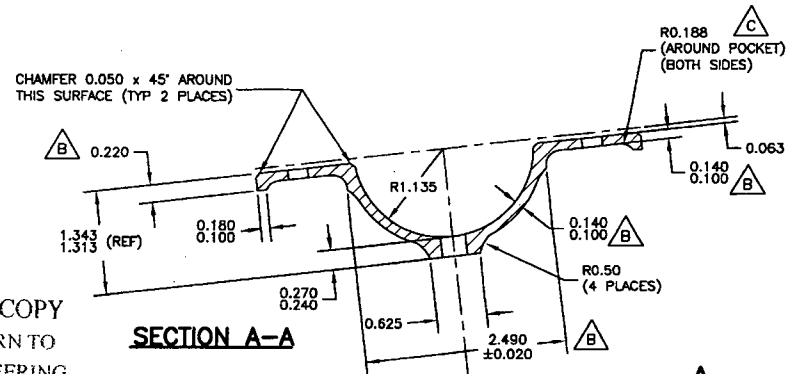
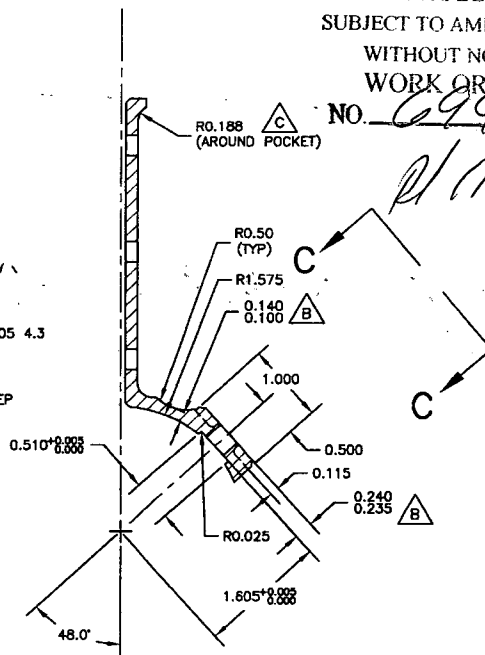
NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



**D2933-1 LH SADDLE (SHOWN)**  
**D2933-2 RH SADDLE (OPPOSITE)**

- NOTES:**
- 1) MATERIAL: ALUMINUM 7075-T7351 (QC-A-250/12)  
 (MAKE FROM D6101-001 SADDLE BILLET, 7075)
  - 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1  
 POWDER COAT GLOSS WHITE (REF 4.3.5.1) PER DART QSI 005 4.3
  - 3) BREAK ALL SHARP EDGES 0.010 TO 0.020
  - 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
  - 5) ALL DIMENSIONS ARE IN INCHES
  - 6) ENGRAVE PART AND BATCH NUMBER IN THIS AREA 0.010 TO 0.015 DEEP



C	06.11.09	R0.188 WAS R0.30 TO R0.25
B	00.05.29	CHANGED GEOMETRY AND MATERIAL
A	99.10.29	NEW ISSUE
DESIGN	4	DRAWN BY
CHECKED	PH	APPROVED
DATE	06.11.09	TITLE
		SADDLE INSIDE
		DART AEROSPACE USA, INC.
		REV. C
		SHEET 1 OF 1
		SCALE
		2:3

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 PERSON WITHOUT WRITTEN PERMISSION FROM  
 DART AEROSPACE USA, INC.

**DART** DART AEROSPACE USA, INC.  
 BELLEVUE, WA

DRAWING NO.  
**D2933**  
 TITLE  
**SADDLE INSIDE**

07.02.12

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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**NOTE:** Date & initial all entries